

RESUME

Circular shape is a traditional shape in building houses. It is a natural result of using material in surrounding, but it was pushed away by archetypal cubic shape with saddleback roof.

Cupola is a rational form for building ground floor houses. "KekoEko concretes" give us the possibility of cheap, easy and simple building of houses where walls and roof are replaced with curved surfaces shaped as cupolas and as vaults.

This material satisfies several demands: hardness, toughness, heat and noise insulation, steam, steam permeability.

It is also accumulative, fire resistant, ecologic material with no capillary water absorption, while its bulk density is from 400 up to 1500 kg/m³ (optimal is 800 kg/m³).

Cupolas can be built easily with no need for mechanisation, scaffolds or similar. Building with this material is twice cheaper than the ordinary and it is twice faster, too.

By joining two or more cupolas we can get complex, flexible modular systems suitable for building in phases.

Author of this article has the pleasure to introduce this material and the necessarily and justifiableness of its usage in building cupolas and vaults.

Living in those buildings will be pleasure, regarding the nature and harmony of the space, its microclimatic and psychological influence and its safety.

AUTHORS and CONTACT:

Dr Ivan Hegediš, *dipl. inž. arh. docent, Građevinski fakultet Subotica*
e-mail: hege@tppnet.co.yu

Dr Milan Kekanović, *dipl. inž. građ. docent, Građevinski fakultet Subotica*
e-mail: kekam@ptt.yu